

Question: Which bridges are most critical to the movement of freight?







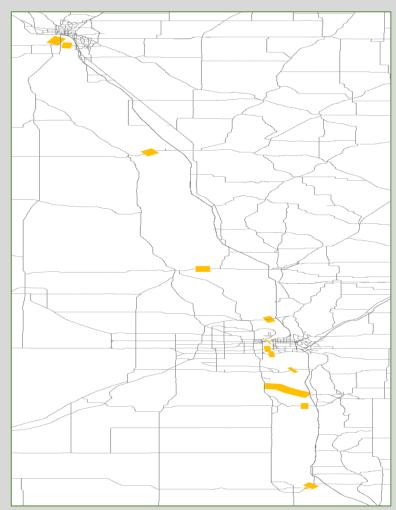
WHICH SHOULD GET PRIORITY TREATMENT IN MAINTENANCE?



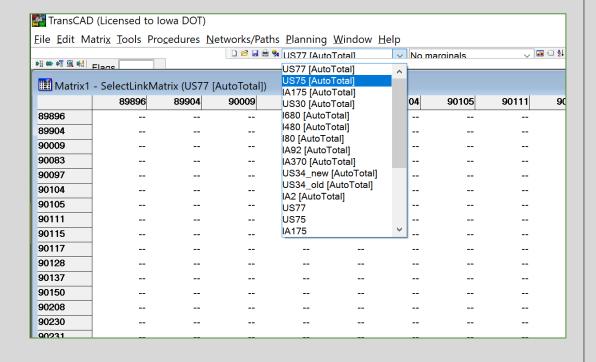
WHICH TO INCLUDE ON THE MULTIMODE FREIGHT NETWORK?

Analysis Steps

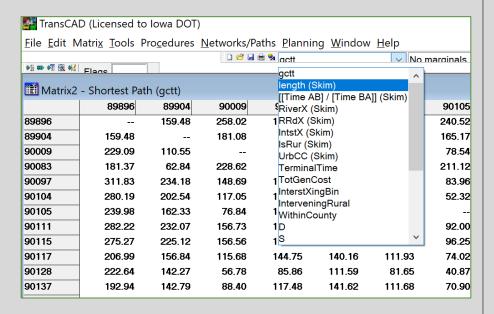
- Create a list of candidate locations [Primary and Interstate] along the Missouri river
- 2. Mark each of the locations in the Select Link tool



- Analysis Steps
- 3. Summarize the total trips on each selection link as identified by matrix core from "TempAuto.mtx" and "TempTruck.mtx"



- Analysis Steps
- 4. Open the "TimeSkim.mtx" from the Step 2 folder and select the "length" matrix core.
- Use TransCAD to manually add in intrazonal trip times with the normal default parameters



- Analysis Steps
- 6. Create a new matrix for the summation of the matrix math, multiply the trips from step 3 with the length from step 4 to get VMT
- 7. Compute the matrix statistics and take the VMT for the selected bridge and divide by the select link trips
 - This will need to be done for each select link
 - This will need to be done for each truck and auto matrix

Analysis Results

Number	Route	County	Matrix Sum	VMT	Trip Length
1	I-80	Pottawattamie	35,867	6,393,135	178.2
2	IA 2	Fremont	2,677	328,634	122.8
3	I-680	Pottawattamie	26,268	2,633,935	100.3
4	US 30	Harrison	3,959	347,157	87.7
5	IA 175	Monona	1,171	78,317	66.9
6	US 34 New	Mills	8,801	569,112	64.7
7	US 75	Woodbury	13,440	805,902	60.0
8	IA 370	Mills	2,893	161,776	55.9
9	I-480	Pottawattamie	48,284	1,291,010	26.7
10	US 77	Woodbury	22,112	546,741	24.7
11	US 34 Old	Mills	305	6,449	21.2
12	IA 92	Pottawattamie	13,142	264,789	20.1

Thoughts or Questions?